Anti-CPV capsid [A3B10 (MAb 8)] Standard Size Ab02093-201.1

This chimeric dog antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Dog IgG2 (IgG-B), Kappa
Clone Number: A3B10 (MAb 8)
Alternative Name(s) of Target: Canine Parvovirus Capsid; Site B; Capsid protein VP2; Coat protein VP2; Feline Panleukopenia Virus
UniProt Accession Number of Target Protein: P61826
Published Application(s): IP, NTRL, ELISA
Published Species Reactivity: canine parvovirus, feline panleukopenia virus
Immunogen: The original antibody was generated by immunizing mice with canine parvovirus virus.
Specificity: This antibody recognizes and binds the site B of the intact canine parvovirus capsid. It also cross reacts with feline panleukopenia virus. This antibody recognizes a conformational epitope on the viral capsid and does not bind denatured or heat treated virus.
Application Notes: This antibody is capable of neutralizing canine parvovirus and inhibit the hemagglutination of the homologous virus. This antibody can immunoprecipitate capsid protein (PMID: 6194613). Mab A3B10 is non-reactive on Western blots from gels of denatured CPV (PMID: 8259653). The mode of Fab binding suggests that the A3B10 neutralizing antibody cannot bind bivalently to the capsid across the two-fold axes (PMID: 7522904). The binding of A3B10 to intact capsid was tested using ELISA (PMID: 9770425). The scFv version of the antibody bound viral capsid with a 10-20 fold lower avidity as compared to the intact IgG (PMID: 10753725).
Antibody First Published in: Parrish et al. Antigenic structure and variation of canine parvovirus type-2, feline panleukopenia virus, and mink enteritis virus. Virology (1983); 129(2):401-14. PMID:6194613
Note on publication: Describes the characterization of various antigenic structures on the canine parvovirus type-2 (CPV), feline panleukopenia virus (FPV), mink enteritis virus (MEV) and closely related virus of raccoons (RPV) using a panel of 13 monoclonal antibodies (mAb) formed against CPV and 8 mAb formed against FPV.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.